

Algorithm development for fault location in power transmission lines of branched medium voltage circuits

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Abstract

© Medwell Journals, 2017. The study proposes the algorithm to determine the locations of phase-to-phase faults at power transmission lines of branched medium voltage electrical networks. A special feature of the algorithm is the application of emergency mode calculation theory, taking into account the effect of the network load parameters and the transient resistances at phase-to-phase faults.

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Keywords

Centralized control system of 6 (1 0) kV switchgear, Distribution network, Emergency mode parameters, Fault location, Interphase damage, Transient resistance

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